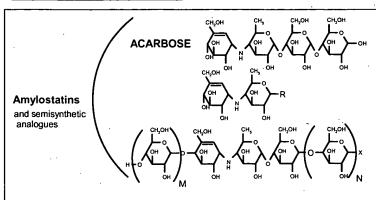
# "MARKED UP VERSION" OF SPECIFICATION:

### Pages 7-8 of Specification



defined as "acarbose and higher homologues"\*

Compound disclosed specifically in DE-2347782. The following are homologues of acarbose:

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\$$

These specific compounds are disclosed in GB-1,482,543, wherein:

X	<u>M</u>	<u>N</u>	GB-1,482,543 ref
<u>OH</u>	. <u>O</u>	<u>0</u>	Component II
<u>OH</u>	<u>0</u>	1	Component III
<u>OH</u>	<u>0</u>	<u>2</u>	Component IV
<u>OH</u>	<u>0</u>	<u>3</u>	Component V
<u>OH</u>	<u>0</u>	4	Component VI
<u>OH</u>	<u>0</u>	<u>5</u>	Component VII
<u>OH</u>	<u>0</u>	<u>6</u>	Component VIII

These specific compounds are disclosed in *Agric. Biol. Chem.*,46 (7), 1941-1945, 1982, wherein:

X	<u>M</u>	<u>N</u>	Agr. Biol. Chem ref
<u>OH</u>	<u>0</u>	<u>0</u>	Compound 1
<u>OH</u>	<u>0</u>	1	Compound 2
<u>OH</u>	<u>0</u>	2	Compound 3
<u>OH</u>	1,	<u>0</u>	Compound 4
<u>OH</u>	1	1	Compound 5
<u>OH</u>	1	<u>2</u>	Compound 6

The following semi-synthetic acarbose analogues, generically and specifically disclosed in US-4,175,123

wherein M=0 to 8, and the sum of M+N is 0 to 7; X is OR, SH, SR, NH<sub>2</sub>, NHR, or NRR<sup>1</sup>, where R is alkyl, alkenyl, cycloalkyl, aralkyl, aryl or heterocyclyl wherein:

alkyl is preferably straight-chain or branched alkyl with 1 to 30, especially 1 to 18, carbon atoms (e.g. methyl, ethyl, n-propyl, l-propyl, n-butyl, t-butyl, n-hexyl, n-octyl, octyl-2, dodecyl, lauryl, cetyl and stearyl), wherein the alkyl radicals R can carry one or more, preferably 1 to 5, identical or different substituents (e.g., hydroxyl, or alkoxy, with preferably 1 to 4 carbon atoms, methoxy and ethoxy; amino or monoalkylamino and dialkylamino, with preferably 1 to 4 carbon atoms per alkyl radical, monomethylamino, monoethylamino, dimethylamino, and diethylamino; mercapto or alkylthio, with preferably 1 to 4 carbon atoms, methylthio and ethylthio; halogen (preferably fluorine, chlorine and bromine); alkylcarbonyl, with preferably 1 to 4 carbon atoms in the alkyl radical; and carboxyl, nitro, cyano, the aldehyde group and the sulphonic acid group;

alkenyl is preferably straight-chain or branched alkenyl with 2 to 6 carbon atoms, with optional substituents (e.g. hydroxyl, alkoxy with 1 to 4 carbon atoms, mercapto, alkylthio with 1 to 4 carbon atoms, halogen (preferably fluorine, chlorine and bromine) or nitro):

cycloalkyl, preferably a carbocyclic radical with 3 to 7 ring carbon atoms (preferably 5 to 7 ring carbon atoms), which can be substituted, (e.g. the groups and atoms mentioned above in the case of open-chain hydrocarbon radicals R);

aryl is preferably a monocyclic or bicyclic aromatic radical with 6 to 10 carbon atoms in the aryl part (e.g. phenyl, biphenyl, naphthyl, etc., in particular phenyl, which can be substituted), optionally substituted aryl or aralkyl radicals, preferably 1 to 3 identical or different substituents (e.g. alkyl with 1 to 10 carbon atoms, optionally substituted, (e.g. chlorine, nitro or cyano); optionally substituted alkenyl radicals with 1 to 10 carbon atoms; hydroxyl or alkoxy with preferably 1 to 4 carbon atoms; amino or monoalkylamino and dialkylamino with preferably 1 to 4 carbon atoms per alkyl radical; mercapto or alkylthio with preferably 1 to 4 carbon atoms; and carboxyl or carbalkoxy with preferably 1 to 4 carbon atoms; the sulphonic acid group, alkylsulphonyl with preferably 1 to 4 carbon atoms and arylsulphonyl, preferably phenylsulphonyl; aminosulphonyl or alkylaminosulphonyl and dialkylaminosulphonyl with 1 to 4 carbon atoms per alkyl group, preferably methylaminosulphonyl and dimethylaminosulphonyl; nitro, cyano or the aldehyde group; alkylcarbonylamino with preferably 1 to 4 carbon atoms; and alkylcarbonyl with 1 to 4 carbon atoms, benzoyl, benzylcarbonyl and phenethylcarbonyl, the last-mentioned alkyl, phenyl, benzyl and phenethyl radicals may be optionally substituted (e.g.chlorine, nitro or hydroxyl, as well as radicals derived from sugars);

aralkyl preferably has 6 to 10, especially 6, carbon atoms in the aryl part said aryl part being preferably monocyclic or bicyclic carbocyclic aryl, such as phenyl, biphenyl or naphthyl, and preferably 1 to 4, especially 1 or 2, carbon atoms in the alkyl part, as for example in benzyl or phenylethyl. Possible substituents for the aryl part of the aralkyl radical are preferably those substituents mentioned for the aryl radicals R above;

Heterocyclyl preferably has a hetero-paraffinic, heteroaromatic or hetero-olefinic 5-mebered or 6-membered ring, with preferably 1 to 3 identical or different hetero-atoms (e.g. oxygen, sulphur or nitrogen), optionally substituted (e.g. hydroxyl, amino, C<sub>1</sub>–C<sub>4</sub>-alkyl groups, benzene nuclei or further, preferably 6-membered, heterocyclic rings of the type mentioned can be fused to them, wherein the bonding of the heterocyclic radical R is effected via a carbon atom of the heterocyclic system or of the fused benzene nucleus (preferred

heterocyclic radicals are derived, *e.g.*, from furan, pyran, pyrrolidine, piperidine, pyrazole, imidazole, pyrimidine, pyridazine, pyrazine, triazine, pyrrole, pyridine, benzimidazole, quinoline, isoquinoline or purine, including those heterocycles which are bonded via a –CH<sub>2</sub>- bridge outside the ring, for example the furfuryl radical));

wherein  $R_1$  of NRR<sup>1</sup>, is alkyl, cycloalkyl, aralkyl, or aryl in which  $R_1$  preferably represents a straight-chain or branched alkyl radical with 1-6 carbon atoms or a cycloalkyl, aralkyl or aryl radical as defined above for R (e.g. cyclopentyl, cyclohexyl, benzyl or phenyl radical), it being possible for the radicals mentioned to be preferably substituted by alkoxy with 1 to 4 carbon atoms, amino,  $C_1$ – $C_4$  monoalkylamino and  $C_1$ – $C_4$ -dialkylamino, nitro, cyano, hydroxyl, mercapto,  $C_1$ – $C_4$ -thioalkyl or the carboxyl or sulphonic acid group, in the case where  $R_1$  denotes phenyl, also by  $C_1$ – $C_4$ -alkyl;

wherein R and R<sub>1</sub> and the nitrogen atom to which they are bonded, may optionally form a heterocyclic ring, optionally saturated or unsaturated, the ring optionally containing 1 to 3 further (preferably 1) oxygen atoms, sulphur atoms or nitrogen atoms and, as hetero groups, a SO<sub>2</sub> group or a N-alkyl group, the alkyl (e.g. methyl, ethyl, n- and i-propyl and n-, l- and t-butyl) in the N-alkyl group preferably containing 1-4, in particular 1 or 2, carbon atoms; wherein the heterocyclic ring contains 5-7, preferably 5 or 6, ring members. The 6-membered heterocyclic ring preferably contains the hetero-atom or the heterogroup in the para-position relative to the nitrogen atom (e.g. pyrrolidine, piperidine, hexamethleneimine, morpholine and N-methylpiperazine).

J. Antibiotics 36 p1157–1165 (1983) discloses the fermentation and isolation of a family of amylase inhibitors, trestatin-A, B and C. J. Antibiotics 36 p1166–1175 (1983) discloses the structures of trestatin-A, B and C

Trestatin A, N = 2

Trestatin B N = 1

Trestatin C N = 3

Trestatins,
e.g.—those
described in:
J. Antibiotics
36:—11571165, (1983)
J. Antibiotics
36:—11661175, (1983)
And
compounds
described in

J. Antibiotics 37 p182-186 (1984) describes the isolation, characterisation and structure elucidation of higher homologues of the trestatins. The structures disclosed are:

J. Antibiotics 37(2): 182-186, (1984)

Ro 09-0766, N = 3 Ro 09-0767, N = 2

Ro 09-0768, N = 1

The amylase inhibitor, V-1532, is prepared and characterized as described in J.Mol. Biol. 260, 409-421, (1996).

V-1532

V-1532

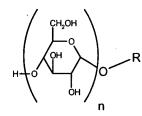
<del>described in</del>

J<del>.</del>Mol. Biol.

<del>260, 409-</del>

<del>421, (1996)</del>

<u>Chem. Pharm. Bull 47(2), 187-193 (1999) describes the synthesis of the following N-containing maltooligosaccharides with α-amylase activity.</u>



n = 0-4
R = 4 definitions of N containing moieties

<u>R</u>	<u>n</u>	Chem. Pharm Bull
<u>A</u>	<u>0</u>	Compound 6
<u>A</u>	<u>1</u>	Compound 7
<u>A</u>	2	Compound 8
Α	3	Compound 9

compounds described in Chem. Pharm. Bull 47(2), 187-193 (1999); JP2000044589 A

<u>A</u>	<u>3</u>	Compound 9		
A	4	Compound 10	· ·	
<u>B</u>	0	Compound 11	*	
<u>B</u>	1	Compound 12		•
<u>B</u>	<u>2</u>	Compound 13	•	
<u>B</u>	<u>3</u>	Compound 14		
<u>B</u>	<u>4</u> ,	Compound 15	<b>'</b> .	
<u>C</u>	<u>o</u> '	Compound 16	• •	
<u>C</u>	1	Compound 17		·
<u>C</u>	2	Compound 18		
C	3	Compound 19	· ·	
<u>C</u>	4	Compound 20		
<u>D</u>	1	Compound 22		
<u>D</u>	2	Compound 23		
<u>D</u>	3	Compound 24		
<del>Amylas</del>	e inhibito	r-SA-I		SA-I
Agric. E	Biol. Chen	n, 41(11) 2221-2228	(1977) describes the fermentation,	Described in Agric. Biol.
recover	y and iso	lation of the microbial	natural product amylase inhibitor, SA-1.	Chem, 41(11) 2221-2228
Althoug	h the stru	icture of SA-1 is unkno	own, the compound has been shown to	<del>(1977)</del>
<u>be hom</u>	ogeneous	s by tlc and is characte	erized by analytical data.	
Extract	from Stre	ptomycos Strain DMC	<del>-72</del> "	Described in
Kor. J.	Mycol. V	<u>ol 13, No.4, 203-212</u>	, (1985) describes the fermentation and	Kor. J. Mycol. Vol 13, No.4,
purifica	tion of a	<u>microbial natural pr</u>	roduct α-amylase inhibitor from culture	<del>203-212,</del> <del>(1985)</del>
filtrates	of Strep	tomyces strain DMC-	72. The compound is characterized by	(1700)
<u>analytic</u>	al data.		•	,
				Compounds
EP-194	794 (WO	<b>-8605094</b> PCT equival	lent) reports the structures of a number of	disclosed in JP159657;
N-subst	ituted va	liolamine derivatives, i	referring to EP-56194 for their synthesis.	ES8800955A; WO8605094A
The cor	mpounds	have the structure:		<del>; and</del>
,		снон	ı.	EP194794A
				·
		OHO	OH	
		HO´ <b>V</b>	<b>⊣ ի−A</b>	
			он	
in which	n A is an a	acyclic hydrocarbon gr	oup of 1 to 10 carbon atoms which may	
have or	ne or more	e members selected fr	om the group consisting of hydroxy,	·
phenox	y, thienyl,	furyl, pyridyl, cyclohex	xyl, and a substituted or unsubstituted	. "
phenyl;	a five- to	six-membered cyclic h	nydrocarbon group which may have one	
or more	member	s selected from the gro	oup consisting of hydroxy,	

hydroxymethyl, methyl and amino, or a saccharide residue.

ES-8800955 describes valiolamine and validamine analogues with the structures:

in which A is a hydrocarbon group of 1 to 10 carbon atoms, optionally substituted with hydroxy, phenoxy, thienyl, furyl, pyridyl, cyclohexyl; or a phenyl group optionally substituted; or a cyclic hydrocarbon of 3 – 7 carbon atoms, optionally substituted with hydroxyl, and B is hydrogen or hydroxyl.

Trestatin sulphate salts

EP-301-400-A

<u>EP-301400 (US equivalent – US-4885361) describes the sulphation of the trestatins to give sulphated oligosaccharides with structures:</u>

wherein n is a whole number from 1-3; R is hydrogen or a residue  $-SO_3M$  and M is a cation; and in which the degree of sulphation is at least 1.

Psuedo-oligosaccharide from Streptomyces sp.FH 1717 (DSM 3006)

<del>See</del> <del>EP 173950A</del>

**EP-173950** describes the fermentation, recovery and isolation of the pseudooligosaccharide α-glycosidase inhibitor from *Streptomyces sp.* FH-1717 (DSM-3006). This compound has the structure shown:

compounds disclosed in

EP-49981 discloses the synthesis of some N-substituted valienamine	EP-49981
derivatives:	
CH₂OH	
(он	
HO' N-A	
in which A is a chain hydrocarbon group having 1 to 10 carbon atoms optionally	
substituted by hydroxyl, phenoxy, thienyl, furyl, pyridyl, cyclohexyl or phenyl	
optionally substituted by hydroxyl, lower alkoxy, lower alkyl, halogen or	
carboxyl; or a cyclic hydrocarbon group having 3 to 7 carbon atoms optionally	
substituted by hydroxyl.	
	amylase inhibitors
Angewandte Chemie Int. Ed. 20, 744-761 (1981) reviews the chemistry of	disclosed in
microbial derived α-glucosidase inhibitors. The oligosaccharides are described	Angew. Chem. Int. Ed. 20
elsewhere in this specification. The properties of the low molecular weight	<del>, 744-761,</del> <del>(1981).</del>
inhibitors, nojirimycin and 1-deoxynojirimycin, are reported.	(1201):
HO OH HO OH	
HO N H	
OH OH nojirimycin 1-deoxynojirimycin	
Example 7, Fraction 21 compound	see below
The fermentation, recovery, resin and HPLC purification, and nmr assignment of	Soc ociow
an oligosaccharide amylase inhibitor from Streptomyces conglobatus, ATCC-	·
31005 is described in Example 7 of the Experimental section of this	
specification.	
Example 8 compound	see below
The fermentation, recovery, resin and HPLC purification, and nmr assignment of	:
a novel oligosaccharide amylase inhibitor from Streptomyces conglobatus.	
ATCC-31005 is described in Example 8 of the Experimental section of this	
specification.	
Iso-acarbose, and B-acarbose and related structures described in	Tetrahedron

## acarbose from 1-epivalienamine.

Both isoacarbose and acarviosine-glucose can be produced by the enzymic transformation of acarbose, as reported in Archives Biochem. Biophys, 371, 2, 277-283 (1999).

p2479-2482, (1996) Archives of Biochemistry and Biophysics, Vol 371, No.2, p277-283, (1999) J. Chem. Soc. Chem. Commun. No.9, p605-606 (1988)

# 

### isoacarbose

### acarviosine-glucose

The synthesis of adiposin-2 is reported in JCS Chem. Comm., 9, 605-606 (1988)

# adiposin-2

# Pages 10-19 of the Specification:

certain compounds with the moiety shown above appear in Chemical Abstracts\* with the Registry Numbers (RN) shown below.

	RN	<del>257941-10-9 REGISTRY</del>
2	RN	257936-25-7 REGISTRY
		-250161-57-0 REGISTRY
	RN	
5	RN	227087-68-5 REGISTRY
	RN	
7	RN	223608-57-9 REGISTRY
8	RN	223608-52-4 REGISTRY
9	RN	221371-17-1 REGISTRY
		211247-58-4 REGISTRY
11	RN	-211247-57-3 REGISTRY
12	RN	211247-56-2 REGISTRY
13	RN	211247-54-0 REGISTRY
14	RN	211239-26-8 REGISTRY"
. 15	RN	-211237-50-2 REGISTRY
<del>16</del>	-RN	207681-89-8 REGISTRY
<del>17</del>	RN	196944-81-7 REGISTRY
<del>18</del> —	RN	194539-38-3-REGISTRY
<del>19</del> —	RN	194539-37-2 REGISTRY
20	RN	194539-27-0 REGISTRY
21	-RN	194539-17-8 REGISTRY
22	RN	194539-15-6 REGISTRY
<del>23</del> —	RN	194539-13-4 REGISTRY
<del>24</del>	RN	194539-11-2 REGISTRY
<del>25</del> —	RN	- 190784-97-5 REGISTRY
<del>26</del> —	RN	190451-31-1 REGISTRY
27	RN	190385-50-3 REGISTRY
		-190385-49-0 REGISTRY
		186420-21-3 REGISTRY
30	RN	186420-19-9 REGISTRY
		179382-46-8 REGISTRY
		178034-25-8 REGISTRY
33	RN	177898-45-2 REGISTRY
34	RN	177898-44-1 REGISTRY
35	RN	177898-43-0 REGISTRY
36	RN	177898-42-9 REGISTRY
37	RN	177898-41-8 REGISTRY
38	RN	176587-86-3 REGISTRY
39	RN	- 176389-24-5-REGISTRY
40-	-RN	176389-23-4 REGISTRY
		· ·

41	-RN	172787-72-3 REGISTRY
42	RN	172291-40-6 REGISTRY
43	RN	170932-13-5 REGISTRY
44	RN-	162428-10-6 REGISTRY
45—	RN	162428-09-3 REGISTRY
46	-RN	162428-08-2 REGISTRY
47	RN	162428-07-1 REGISTRY
48	RN	162428-03-7 REGISTRY
49	-RN-	157750-07-7 REGISTRY
<del>50</del> —	RN -	157639-66-2 REGISTRY
		157639-64-0 REGISTRY
		156969-91-4 REGISTRY
		155974-62-2 REGISTRY
		155874-49-0 REGISTRY
		155874-48-9 REGISTRY
56—	RN	155874-47-8 REGISTRY
		155874-46-7 REGISTRY
		155874-45-6 REGISTRY
		155874-44-5 REGISTRY
• .		152042-99-4 REGISTRY
		148291-19-4 REGISTRY
63		142504-69-6 REGISTRY
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		142504-66-3 REGISTRY
		142504-65-2 REGISTRY
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		130069-26-0-REGISTRY
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91	-KN	128826-89-1 REGISTRY

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		124857-60-9 REGISTRY
• .		<u> 124534-96-9 REGISTRY</u>
95	RN	-123941-04-8 REGISTRY
96	RN	112067-63-7 REGISTRY
97	RN	112014-09-2 REGISTRY
98	RN	109718-71-0 REGISTRY
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		106818-23-9 REGISTRY
		106565-44-0 REGISTRY
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		106357-01-1 REGISTRY
		106054-18-6 REGISTRY
		106054-17-5 REGISTRY
		105580-86-7 REGISTRY
		102583-47-1 REGISTRY
	114779-27-0	400000 54 5 55010751/
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		102069-51-2 REGISTRY
		-101401-49-4 REGISTRY
		101144-24-5 REGISTRY
		-101144-22-3 REGISTRY
117		
*		99746-06-2 REGISTRY
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118 119	RN RN	89920-25-2 REGISTRY 89920-24-1 REGISTRY
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118 119 120 121 122 123 124 125 126 127 128 129 130	RN R	89920-25-2 REGISTRY 89920-24-1 REGISTRY 89859-74-5 REGISTRY 89859-73-4 REGISTRY 89859-72-3 REGISTRY 89498-90-8 REGISTRY 89498-89-5 REGISTRY 89498-88-4 REGISTRY 87037-90-9 REGISTRY 87037-36-3 REGISTRY 86900-52-9 REGISTRY 85440-55-7 REGISTRY
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118 119 120 121 122 123 124 125 126 127 128 129 130 131 132	RN RN RN RN RN RN RN RN RN RN RN RN RN R	89920-25-2 REGISTRY 89920-24-1 REGISTRY 89859-74-5 REGISTRY 89859-73-4 REGISTRY 89859-72-3 REGISTRY 89498-90-8 REGISTRY 89498-89-5 REGISTRY 89498-89-5 REGISTRY 89498-88-4 REGISTRY 87037-90-9 REGISTRY 87037-36-3 REGISTRY 86900-52-9 REGISTRY 85440-54-6 REGISTRY 85440-54-6 REGISTRY 85440-53-5 REGISTRY
118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133	RN RN RN RN RN RN RN RN RN RN RN RN RN R	89920-25-2 REGISTRY 89920-24-1 REGISTRY 89859-74-5 REGISTRY 89859-73-4 REGISTRY 89859-72-3 REGISTRY 89498-90-8 REGISTRY 89498-89-5 REGISTRY 89498-88-4 REGISTRY 87037-90-9 REGISTRY 87037-36-3 REGISTRY 86900-52-9 REGISTRY 85440-55-7 REGISTRY 85440-53-5 REGISTRY 85440-53-5 REGISTRY 85440-51-3 REGISTRY
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144	-RN	84270-02-0 REGISTRY
145	RN	84270-01-9 REGISTRY
146-	-RN	84270-00-8 REGISTRY
147	-RN	83764-12-9 REGISTRY
148	RN	83764-11-8 REGISTRY
		83470-76-2 REGISTRY
		-83116-11-4 REGISTRY
		83116-10-3 REGISTRY
		83116-09-0 REGISTRY
		83116-08-9 REGISTRY
		82950-48-9 REGISTRY
155	-RN	82950-47-8 REGISTRY
156-	-RN	82950-46-7 REGISTRY
157	-RN	82950-45-6 REGISTRY
158	-RN-	82950-44-5 REGISTRY
159	-RN	82920-58-9 REGISTRY
		82920-57-8 REGISTRY
161	RN	82920-56-7 REGISTRY
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		82920-54-5 REGISTRY
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170-	RN	82920-47-6 REGISTRY
170 171	RN	82920-47-6-REGISTRY 82920-46-5-REGISTRY
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198	RN-	82920-19-2 REGISTRY
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200	RN	82920-17-0 REGISTRY
201	RN	82920-16-9 REGISTRY
		82920-15-8 REGISTRY
		82920-14-7 REGISTRY
		82920-13-6 REGISTRY
		82920-12-5 REGISTRY
		82920-11-4 REGISTRY
		82920-10-3 REGISTRY
		82920-09-0-REGISTRY
		82920-08-9-REGISTRY
		82920-07-8 REGISTRY
		82920-06-7 REGISTRY
		82920-05-6-REGISTRY
		82796-38-1 REGISTRY
		82309-82-8 REGISTRY
		82309-79-3 REGISTRY
		82309-75-9 REGISTRY
	-RN	81739-22-2 REGISTRY
	<del>81691-72-7</del>	
218	RN	-81692-17-3-REGISTRY
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218 — 219 — DR — 220 —	RN RN 141902-23-0 RN	-80943-41-5 REGISTRY -80531-33-5 REGISTRY
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218 — 219 — DR — 220 — 221 — 222 — 223 —	RN RN 141902-23-0 RN RN RN	80943-41-5 REGISTRY 80531-33-5 REGISTRY 80531-32-4 REGISTRY 80531-31-3 REGISTRY 80531-30-2 REGISTRY
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218 219 DR 220 221 222 223 224 225 226 227 228 229 230 231 232	RN RN 141902-23-0 RN	80943-41-5 REGISTRY 80531-33-5 REGISTRY 80531-32-4 REGISTRY 80531-31-3 REGISTRY 80531-30-2 REGISTRY 80531-29-9 REGISTRY 80531-28-8 REGISTRY 80531-27-7 REGISTRY 80531-26-6 REGISTRY 79549-83-0 REGISTRY 79549-83-0 REGISTRY 79549-82-9 REGISTRY 78216-48-5 REGISTRY 78180-90-2 REGISTRY
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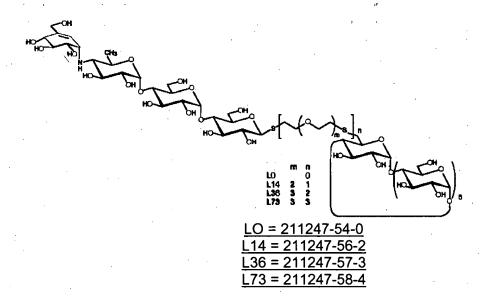
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# RN-186420-19-9

# O. Srivastava and R. Sweda; US-5929037 example 44 column 29.

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### RN 134221-44-6

HO — CH 
$$_2$$
 OH OH OH OH OH

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# H<sub>2</sub>SO<sub>4</sub> salt

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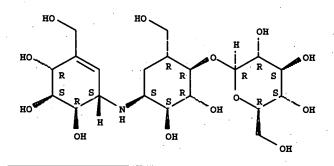
# RN-89859-72-3

### RN-89498-90-8, RN-89498-89-5, RN-89498-88-4

RN-89498-90-8 = compound I RN-89498-89-5 = compound II RN-89498-88-4 = compound III III, n=1

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Heiker, Fred Robert; Mueller, Lutz; Puls, Walter; Bischoff, Hilmar. EP-64635-A1.

# RN-85382-69-0

# Heiker, Fred Robert; Mueller, Lutz; Puls, Walter; Bischoff, Hilmar. EP-64635-A1. RN-85240-37-5

# t-BuO -C-NH CH 2-OH HO OH

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-89812-A1.

#### RN-85240-25-1

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-89812-A1. RN-84622-05-9

HO 
$$\begin{array}{c} \text{OH} \\ \text{NH} \\ \text{HO} \\ \text{CH}_2-\text{OH} \\ \text{OH} \\ \end{array}$$

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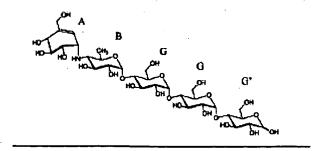
# RN-83470-76-2

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#### RN-82950-47-8

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# RN-82950-46-7

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p10.

# RN-82950-45-6

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p10.

# RN-82950-44-5

HC1

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p8.

# RN-82920-58-9

HC1

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p12.

### RN-82920-57-8

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p7. RN-82920-56-7

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p16. RN-82920-55-6

# Horii, Satoshi, Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p11. RN-82920-54-5

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p7. RN-82920-53-4

# RN-82920-52-3

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p23. RN-82920-51-2

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p23. RN-82920-50-1

# RN-82920-49-8

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p23.

### RN-82920-48-7

· HCl

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p12

# RN-82920-47-6

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p12

#### RN-82920-46-5

# RN-82920-45-4

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p12 RN-82920-44-3

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p10 RN-82920-43-2

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p11 RN-82920-42-1

# RN-82920-41-0

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p10 RN-82920-40-9

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p20 RN-82920-39-6

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p20 RN-82920-38-5

# RN-82920-37-4

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p19 RN-82920-36-3

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p19

# RN-82920-35-2

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p19 RN-82920-34-1

Me — CH — CH — N — CH 
$$_2$$
 — OH OH

# RN-82920-33-0

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p19 RN-82920-32-9

Ph — CH 
$$_2$$
 — CH — NH — CH  $_2$  — OH OH

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p18

# RN-82920-31-8

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p18 RN-82920-30-7

#### RN-82920-29-4

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p18 RN-82920-28-3

# HO S S OH OH

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p18 RN-82920-27-2

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p18 RN-82920-26-1

Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p17

#### RN-82920-25-0

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p17 RN-82920-24-9

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p17 RN-82920-23-8

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p17 RN-82920-22-7

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#### RN-82920-21-6

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p16

# RN-82920-20-5

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p16 RN-82920-19-2

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p15 RN-82920-18-1

# Horii, Satoshi, Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p15 RN-82920-17-0

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p15 RN-82920-16-9

Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p14

#### RN-82920-15-8

Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p14

## RN-82920-14-7

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p14

#### RN-82920-13-6

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p14

# RN-82920-12-5

## Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p14

#### RN-82920-11-2

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p13 RN-82920-10-3

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p13 RN-82920-09-0

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p13 RN-82920-08-9

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p13 RN-82920-07-8

Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p13

#### RN-82920-06-7

# Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p13

#### RN-82920-05-6

#### Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi. EP-49981-A1 p13

#### RN-82796-38-1

#### Meiji Seika Kaisha, Ltd., Japan JP-57024397-A2 p1

#### RN-82309-82-8

Ogawa, Seiichiro; Ogawa, Takao; Chida, Noritaka; Toyokuni, Tatsushi; Suami, Tetsuo. Chemistry Letters (1982), (5), 749-52 p751

#### RN-82309-79-3

HO 
$$\begin{array}{c} \text{OH} \\ \text{NH} \\ \text{HO} \\ \text{CH}_2\text{-OH} \\ \text{OH} \\ \end{array}$$

Ogawa, Seiichiro; Ogawa, Takao; Chida, Noritaka; Toyokuni, Tatsushi; Suami, Tetsuo. Chemistry Letters (1982), (5), 749-52 p751

#### RN-82309-75-9

Ogawa, Seiichiro; Ogawa, Takao; Chida, Noritaka; Toyokuni, Tatsushi; Suami, Tetsuo.

Chemistry Letters (1982), (5), 749-52 p751

#### RN-81739-22-2

Ogawa, Seiichiro; Toyokuni, Tatsushi; Iwasawa, Yoshikazu; Abe, Yasuo; Suami, Tetsuo. Chemistry Letters (1982), (3), 279-82 p279

#### RN-81692-17-3

# Ogawa, Seiichiro; Toyokuni, Tatsushi; Iwasawa, Yoshikazu; Abe, Yasuo; Suami, Tetsuo. Chemistry Letters (1982), (3), 279-82 p280

#### RN-80943-41-5

#### Meiji Seika Kaisha, Ltd., Japan JP-57024397-A2 p1

#### RN-80531-33-5

#### Taisho Pharmaceutical Co., Ltd., Japan. JP-56125398-A2 p1

#### RN-80531-32-4

#### Taisho Pharmaceutical Co., Ltd., Japan. JP-56125398-A2 p1

#### RN-80531-31-3

#### Taisho Pharmaceutical Co., Ltd., Japan. JP-56125398-A2 p1

#### RN-80531-30-2

#### Taisho Pharmaceutical Co., Ltd., Japan. JP-56125398-A2 p1

#### RN-80531-29-9

Taisho Pharmaceutical Co., Ltd., Japan. JP-56125398-A2 p1

#### RN-80531-28-8

# Taisho Pharmaceutical Co., Ltd., Japan. JP-56125398-A2 p1

#### RN-80531-27-7

## Taisho Pharmaceutical Co., Ltd., Japan. JP-56125398-A2 p1

#### RN-80531-26-6

## Taisho Pharmaceutical Co., Ltd., Japan. JP-56125398-A2 p1

#### RN-79549-83-0

HO 
$$\frac{\text{CH }_2-\text{OH}}{\text{HO}}$$
  $\frac{\text{CH }_2-\text{OH}}{\text{OH}}$ 

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#### HCI salt

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#### RN-71828-09-6

## **HCI** salt

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#### RN-71605-25-9

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#### RN-68422-39-9

## Component Number 1

## Component Number 2

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#### B. Junge et. al. DE-2658562 p73

#### RN-68107-48-2

# B. Junge et. al. DE-2658562 p72

#### RN-68107-46-0

$$\begin{array}{c} HO \\ O \\ O \\ OH \\ HO \\ OH \\ HO \\ OH \\ O$$

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#### RN-68095-88-5

$$O_2N$$
 OH OH HO OH OH OH OH OH OH OH

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## RN-68095-86-3

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